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PTO/SB/05 (11-00)

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UTILITY PATENT APPLICATION **TRANSMITTAL**

Please type a plus sign (+) inside this box —

21046-P004 Attorney Docket No. First Inventor Behrouz Farhang-Boroujeni METHOD AND APPARATUS FOR SEMI-BLIND COMMUNICATION CHANNEL ESTIMATION

(Only for new nonprovisional applications under 37 CFR 1.53(b))				Express Mail Label No. EL743033932US					
APPLICATION ELEMENTS			ADDI		Assistant Cor Box Patent A		oner for Patents		
See MPEP chapter 600 concerning utility patent application contents.					Washington,				
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)			7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)						
2 XX Applicant claims sn	Applicant claims small entity status.			Nucleotide and/or Amino Acid Sequence Submission					
See 37 CFR 1.27. Specification	[Total Pages 30]		(if ap	pplicable, all neces		CDE)	ช		
3. (preferred arrangement - Descriptive title of	set forth below)		a	Computer Rea		,	=		
- Cross Reference	to Related Applications		b. S	pecification Seque	once Listing o OM or CD-R (2		s): or		
_	rding Fed sponsored R & D quence listing, a table,			ii. paper	3W 01 02 11 (2	. oopic.	5), Ol		
or a computer pr - Background of tl	ogram listing appendix he Invention		c. Statements verifying identity of above copies						
- Brief Summary of			A	CCOMPANYIN	NG APPLIC	ATIC	N PARTS		
 Detailed Descrip 			9.	Assignment Pa	apers (cover s	heet &	document(s))		
- Claim(s) - Abstract of the [Disclosure	_	10.	37 CFR 3.73(t (when there is			Power of Attorney		
4. XX Drawing(s) (35 U.	S.C. 113) [Total Sheets 7_]	11.	English Transl		≥nt (if a			
5. Oath or Declaration UNS	IGNED [Total Pages 3]]	12.	Information Di Statement (ID			Copies of IDS Citations		
a. Newly execut	ted (original or copy)		13.	Preliminary Ar	,				
b. Copy from a for continuati	prior application (37 CFR 1.63 (d)) ion/divisional with Box 18 completed	1)	14. XX Return Receipt Postcard (MPEP 503) (Should be specifically itemized)						
i. DELETION OF INVENTOR(S)			15. Certified Copy of Priority Document(s) (if foreign priority is claimed)						
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR			16. XX Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35						
1 63(d)(2) a	ind 1 33(b).		'-	or its equivale		attach f	orm P1O/SB/35		
6 Application Data Sheet. See 37 CFR 1.76			17. Other:						
	CATION, check appropriate box, and	supply th	ne requis	site information be	elow and in a p	orelimin	ary amendment,		
or in an Application Data Shee	Divisional Continuation-in-part	(CIP)	of	pnor application No :					
Prior application information Examiner				Group Art Unit:					
Box 5b, is considered a part of	DNAL APPS only: The entire disclosure the disclosure of the accompanying crelied upon when a portion has been in	ontinuatio	n or divis	sional application a	ınd is hereby i	ncorpor			
The medipolation <u>carrolly</u> be t	19. CORRESP				о приношно п	Juito.			
XX Customer Number or Bar Code Label (finsert Customer No. or Attach bar code label finite) or Correspondence address below						dress below			
Name	COLUMBIA IP LAW GROU	JP, LL	.c						
	4900 SW Meadows Road			09					
Address		- , -							
City	Lake Oswego	Sta	ate (Oregon	Zip (Code	97035		
Country	USA	Telepho	one 5	503-534-280	00 F	3× 5	03-534-2804		
Name (Print/Type)	Robert/A. Diehl,		Regis	tration No. (Atto	rney/Agent)	4	0,992		
Signature		ñΛ	/		Date		/06/01		

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision

(\$) 0.00

TOTAL AMOUNT OF PAYMENT

Complete if Known				
Application Number	Not Yet Assigned			
Filing Date	February 6, 2001			
First Named Inventor	Behrouz Farhang-Boroujeni			
Examiner Name	Not Yet Assigned			
Group Art Unit	Not Yet Assigned			
Attorney Docket No.	21046-P004			

METHOD OF PAYMENT	FEE CALCULATION (continued)					
1. The Commissioner is hereby authorized to charge indicated		ITIONA	L FEES	3		
Deposit		Large Entity		Smal Entity		
Account Number 501569	Fee	Fee	Fee	Fee		Fee Paid
Deposit	Code	(\$)	Code	(\$)	Fee Description	reeralu
Account Columbia IP Law Group, LLC	105	130	205	65	Surcharge - late filing fee or oath	ļ
Name	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	Ì
Charge Any Additional Fee Required Under 37 CFR 1 16 and 1 17	139	130	139	130	Non-English specification	
Applicant claims small entity status	147	2,520	147	2,520	For filing a request for ex parte reexamination	
See 37 CFR 1 27 2. Payment Enclosed:	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
2. Payment Enclosed: Check Credit Card Money Other Order Other	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	115	110	215	55	Extension for reply within first month	
1.BASIC FILING FEE	116	390	216	195	Extension for reply within second month	
Large Entity Small Entity	117	890	217	445	Extension for reply within third month	
Fee Fee (\$) Fee Fee Description	118	1,390	218	695	Extension for reply within fourth month	
Code Code (\$) Fee Paid 101 710 201 355 Utility filling fee 355.00	128	1,890	228	945	Extension for reply within fifth month	
106 320 206 160 Design filing fee	119	310	219	155	Notice of Appeal	
107 490 207 245 Plant filing fee	120	310	220	155	Filing a brief in support of an appeal	
108 710 208 355 Reissue filing fee	121	270	221	135	Request for oral hearing	
114 150 214 75 Provisional filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 355.00	140	110	240	55	Petition to revive - unavoidable	
	141	1,240	241	620	Petition to revive - unintentional	
2.EXTRA CLAIM FEES		1,240	242	620	Utility issue fee (or reissue)	
Fee from Extra Claims below Fee Paid		440	243	220	Design issue fee	
Total Claims 41 -20**= 21 X 9 00 = 189.00	144	600	244	300	Plant issue fee	
Independent 4 -3**= 1 X 40.00 = 40.00	122	130	122	130	Petitions to the Commissioner	
Claims	123	130	123	130	Petitions related to provisional applications	
Multiple Dependent = 0.00	126	180	126	180	Submission of Information Disclosure Stmt	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	581	40	581	40	Recording each patent assignment per property (times number of properties)	
Code (\$) Code (\$) 103 18 203 9 Claims in Excess of 20	146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
102 80 202 40 Independent claims in excess of 3 104 270 204 135 Multiple dependent claim, if not paid	149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
109 80 209 40 ** Reissue independent claims over	179	710	279	355	Request for Continued Examination (RCE)	
original patent 110 18 210 9 ** Reissue claims in excess of 20 and over	169	900	169	900	Request for expedited examination of a design application	
original patent	Other fe	e (specify)				
SUBTOTAL (2) (\$) 229.00 **or number previously paid, if greater; For Reissues, see above	*Reduced	by Basic F	iling Fee	Paid	SUBTOTAL (3) (\$) 0	.00

SUBMITTED BY				Complete (if app	plicable)
Name (Print/Type)	Robert A. Diehl	Registration No. (Attorney/Agent)	40,992	Telephone	503-534-2800
Signature	-Kalent N. Yhar M.	<u>/</u>		Date	February 6, 2001

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REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		Behrouz Farhang-Boroujeni			
Title METHOD AND A		APPARATUS FOR SEMI-BLIND ON CHANNEL ESTIMATION			
Atty Docket Number		21046-P004			

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

2/6/2001 Date

Robert A. Diehl, Reg. No. 40,992
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing.**

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1 213(a) The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1 14. This form is estimated to take 6 minutes to complete This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO. Assistant Commissioner for Patents, Washington, DC 20231.